

Title (en)
PROBE REAGENT FOR MEASURING OXIDATIVE STRESS

Title (de)
SONDENREAGENS ZUR MESSUNG VON OXIDATIVEM STRESS

Title (fr)
RÉACTIF SONDE POUR MESURER UN STRESS OXYDATIF

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Application
EP 09714536 A 20090227

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Abstract (en)
[origin: EP2256486A1] The present invention relates to fluorescent or luminescent probe reagents for measuring oxidative stress in a cell or an organism. Examples of the probe reagents include: a fluorescent or luminescent protein and a marker protein; a fluorescent or luminescent protein, a marker protein, and a regulatory factor; or a fluorescent or luminescent protein, a marker protein, a cleavage sequence, and a regulatory factor. In the probe reagents, the marker protein makes it possible to detect the oxidative stress caused by reactive oxygen species and comprises a regulatory factor-binding site and a ubiquitin-binding site; and the regulatory factor is a protein making it possible to regulate degradation of the marker protein in response to the reactive oxygen species. The present invention also relates to a method of measuring oxidative stress in a cell or an organism, or a method of screening a substance which suppresses or promotes the oxidative stress in a cell or an organism by using the probe reagent.

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